

MODIFIED TUBULAR EQUIPPED WITH A TILTED OR TRANSVERSE MAGNETIC DIPOLE FOR DOWNHOLE LOGGING

ABSTRACT

Method and system for subsurface logging utilizing a modified metallic tubular having an elongated body with tubular walls and a central bore adapted to receive a support member. The tubular including slotted stations to provide through-tubular signal transmission and/or reception. Pressure barrier means provide hydraulic isolation at the slotted stations. The support member is equipped with various sources and sensors, including an antenna adapted to generate a magnetic dipole moment with a transverse or controllable orientation, and adapted for engagement within the tubular. The apparatus is suitable for LWT, LWD, and TLC logging operations.